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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/085,809	02/28/2002	James Austin Kendrick	98B014E	3259
23455 75	590 03/23/2005		EXAM	INER
EXXONMOBIL CHEMICAL COMPANY			DOROSHENK, ALEXA A	
5200 BAYWA	Y DRIVE			
P.O. BOX 2149)		ART UNIT	PAPER NUMBER
	TX 77522-2149	•	1764	-

DATE MAILED: 03/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Antion Comment	10/085,809	KENDRICK ET AL.				
Office Action Summary	Examiner	Art Unit				
	Alexa A. Doroshenk	1764				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	rely filed s will be considered timely. the mailing date of this communication.				
Status						
1) Responsive to communication(s) filed on	<u>.</u> .					
	_					
3) Since this application is in condition for allowan	_					
closed in accordance with the practice under Ex	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-28</u> is/are pending in the application.						
	4a) Of the above claim(s) <u>1-6 and 26-28</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>7-25</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8)⊠ Claim(s) <u>1-28</u> are subject to restriction and/or el	ection requirement.					
Application Papers						
9)⊠ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>2/28/02</u> is/are: a)⊠ acc		Evaminer				
Applicant may not request that any objection to the di						
Replacement drawing sheet(s) including the correction						
11)☐ The oath or declaration is objected to by the Exa						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign p	priority under 35 U.S.C. & 119(a)-	(d) or (f)				
a) ☐ All b) ☐ Some * c) ☐ None of:		(a) 51 (1).				
1. Certified copies of the priority documents	have been received.					
2. Certified copies of the priority documents have been received in Application No						
Copies of the certified copies of the priorit						
application from the International Bureau	(PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of	f the certified copies not received	l.				
Attachment(s)						
Notice of References Cited (PTO-892)	4) Interview Summary (F	PTO-413)				
Pload Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 7/12/02, 9/26/02, アルルルス コール・アントルルス コール・アントルルルス コール・アントルルルス コール・アントルルス コール・アントルルス コール・アントルルス コール・アントルルルス コール・アントルルス コール・アントルルルス コール・アントルルルス コール・アントルルルス コール・アントルルス コール・アントルルルス コール・アントルルルス コール・アントルルルス コール・アントルルルス コール・アントルル コール・アントルルルス コール・アントルル コール・アントルル コール・アントルルルス コール・アントルルルス コール・アントルルルス コール・アントルルルス コール・アントルルルス コール・アントルルルス コール・アントルルス コール・アントルルス コール・アントルルルス コール・アントルルルス コール・アントルルルス コール・アントルルルス コール・アントルルルルス コール・アントルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルル	Paper No(s)/Mail Date 5) Notice of Informal Pai 6) Other:	e tent Application (PTO-152)				
Patent and Trademark Office	-,					

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DETAILED ACTION

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Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-6, drawn to a loop reactor, classified in class 422, subclass 132.
 - Claims 7-25, drawn to a method of converting a loop reactor, classified in class 29, subclass 890.
 - III. Claims 26-28, drawn to an adaptable loop reactor, classified in class 422, subclass 240.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions I, II and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are not capable of use together, have different modes of operation and different functions.
- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 4. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II or III, restriction for examination purposes as indicated is proper.

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5. Because these inventions are distinct for the reasons given above and the search required for Group II is not required for Group I or III, restriction for examination purposes as indicated is proper.

- 6. Because these inventions are distinct for the reasons given above and the search required for Group III is not required for Group I or II, restriction for examination purposes as indicated is proper.
- 7. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.
- 8. During a telephone conversation with Louis Moreno on August 24, 2004 a provisional election was made with traverse to prosecute the invention of Group II, claims 7-25. Affirmation of this election must be made by applicant in replying to this Office action. Claims 1-6 and 26-28 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.
- 9. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Information Disclosure Statement

10. The information disclosure statement filed March 15, 2004 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document;

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each non-patent literature publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.

The missing document is non-patent literature AO, Chem Systems Inc., High density Polyethylene 91-6-51-61.

11. The remaining citations which are only crossed-out are duplicates of citations on a previously filed IDS. Documents which are initialed and crossed-out were considered. but will not be published on the face of the patent, if a patent is granted.

Specification

- 12. The abstract of the disclosure is objected to because it does not pertain to the claimed invention. Correction is required.
- The disclosure is objected to because of the following informalities: The status of 13. the related applications on page 1, lines 4-15 should be updated as application Docket No. 98B014D is now Patent No. 6,833,415 and Application Nos. 09/955,729 and 09/080,412 are now abandoned.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 14. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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15. Claims 7-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over McElvain et al. (WO 01/05842 A1) and Palmroos (WO 96/18662).

McElvain et al. discloses an apparatus which comprises a loop reactor (10) with at least 8 vertical legs (see figure 1), at least two non-vertical runs which are connected with two vertical legs(see figure 1), at least two feed inlets (30, 32) and at least two continuous discharge conduits (figure 8b). McElvain et al. does not teach reconfiguring their apparatus into two connected closed loop reactors.

Palmroos discloses that connected multiple connected loop reactors (10, 20), each with its own inlet (18, 22) and outlet (21, 27), allow for optimization of reaction stages (p. 5, lines 4-31).

It is well within the skill of one of ordinary skill in the art to be able to connect and disconnect the various elements of the known loop reactor of McElvain et al. to form multiple connected loop reactors of Palmroos, and one would be motivated to do so in order to gain further control of various reaction stages and optimization of reaction stages. Obviousness may sometimes be based on the common knowledge of persons skilled in the art without relying on a specific suggestion in a particular reference. In re Bozek, 416 F.2d 1385, 1390, 163 USPQ 545, 549 (CCPA 1969).

Conclusion

16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexa A. Doroshenk whose telephone number is 571-

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272-1446. The examiner can normally be reached on Monday - Thursday from 9:00 AM - 7:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on 571-272-1444. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Alexa A. Doroshenk

Examiner Art Unit 1764